

AMENDMENTS TO THE CLAIMS

Kindly amend the claims, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, as follows:

1. (Previously Presented) Toothed belt for use with oil, the belt comprising:

a body,

a plurality of teeth extending from at least a first surface of said body, said teeth being coated by a first fabric, and

a plurality of resistant inserts;

wherein said resistant inserts comprise fibers produced from at least a first and a second material wherein the first material comprises glass fibers and the second material comprises carbon fibers, and the first material at least partially covers the second material; and

wherein said toothed belt is adapted to operate in substantially continuous contact with oil or partially immersed in oil.
2. (Withdrawn) ~~Toothed belt as claimed in claim 1, wherein said first material covers said second material at least partly.~~
3. (Previously Presented) Toothed belt as claimed in claim 2, wherein said first material entirely surrounds said second material.
4. (Previously Presented) Toothed belt as claimed in claim 3, wherein said first material has a lower modulus with respect to said second material.

5. (Previously Presented) Toothed belt as claimed in claim 1, wherein, in section, said second material occupies a sectional surface between about 15% and about 75% of a total sectional surface of the body.

6. (Previously Presented) Toothed belt as claimed in claim 5, wherein, in section, said second material occupies a sectional surface between about 35% and 45% of a total sectional surface of the body.

7. (Previously Presented) Toothed belt as claimed in claim 1, characterized in that said resistant inserts include two twists in the same direction.

8. (Withdrawn) ~~Toothed belt as claimed in claim 1, wherein said first and said second material are chosen from the group consisting of glass fibers, aramid fibers, polyester fibers, PBO fibers and carbon fibers.~~

9. (Withdrawn) ~~Toothed belt as claimed in claim 8, wherein said first material is glass fiber.~~

10. (Withdrawn) ~~Toothed belt as claimed in claim 8, wherein said second material is carbon fiber.~~

11. (Previously Presented) Toothed belt as claimed in claim 1, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.
12. (Previously Presented) Toothed belt as claimed in claim 11, wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.
13. (Previously Presented) Toothed belt as claimed in claim 12, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.
14. (Previously Presented) Toothed belt as claimed in claim 13, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.
15. (Previously Presented) Toothed belt as claimed in claim 1, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.
16. (Previously Presented) Toothed belt as claimed in claim 15, wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

17. (Previously Presented) Toothed belt as claimed in claim 15, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said first elastomeric material.

18. (Previously Presented) Toothed belt as claimed in claim 15, wherein said fluorinated plastomer is polytetrafluoroethylene.

19. (Previously Presented) Toothed belt as claimed in claim 15, wherein a back of said belt is covered by a second fabric.

20. (Previously Presented) Toothed belt as claimed in claim 19, wherein said second fabric is externally coated by a second resistant layer.

21. (Previously Presented) Toothed belt as claimed in claim 20, wherein said second resistant layer is the same as said first resistant layer.

22. (Previously Presented) Toothed belt as claimed in claim 15, wherein said elastomeric material comprises fibers.

23. (Previously Presented) Toothed belt as claimed in claim 22, wherein said fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

24. (Previously Presented) Toothed belt as claimed in claim 1, wherein said toothed belt comprises, between the toothing and a back surface of said belt, sides treated with a polymer resistant to swelling.

25. (Currently Amended) Timing control system for a motor vehicle comprising at least one driving pulley, one driven pulley, a toothed belt adapted for use in substantially continuous contact with oil or partly immersed in oil, and materials for maintaining said toothed belt in an oil-wet condition; said toothed belt comprising a body, and one or more teeth extending from at least a first surface of said body, said teeth being covered by a first fabric, and a plurality of resistant inserts, wherein said resistant inserts comprise fibers produced from at least a first and a second material, wherein the first material comprises glass fibers and the second material comprises carbon fibers, and the first material at least partially covers the second material.

26. (Previously Presented) Control system as claimed in claim 25, wherein said first material covers said second material at least partly.

27. (Previously Presented) Control system as claimed in claim 26, wherein said first material entirely surrounds said second material.

28. (Previously Presented) Control system as claimed in claim 27, wherein said first material has a lower modulus with respect to said second material.

29. (Previously Presented) Control system as claimed in claim 25, wherein, in cross-section, said second material occupies a surface between about 15% and about 75% of a total sectional surface of the body.

30. (Previously Presented) Control system as claimed in claim 29, wherein, in cross-section, said second material occupies a surface between about 35% and 45% of a total sectional surface of the body.

31. (Previously Presented) Control system as claimed in claim 25, wherein said resistant inserts include two twists in the same direction.

32. (Withdrawn) ~~Control system as claimed in claim 25, wherein said first and said second material are chosen from the group consisting of glass fibers, aramid fibers, polyester fibers, PBO fibers and carbon fibers.~~

33. (Withdrawn) ~~Control system as claimed in claim 32, wherein said first material is glass fiber.~~

34. (Withdrawn) ~~Control system as claimed in claim 32, wherein said second material is carbon fiber.~~

35. (Previously Presented) Control system as claimed in claim 25, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.

36. (Previously Presented) Control system as claimed in claim 35, wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

37. (Previously Presented) Control system as claimed in claim 36, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

38. (Previously Presented) Control system as claimed in claim 37, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.

39. (Previously Presented) Control system as claimed in claim 25, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.

40. (Previously Presented) Control system as claimed in claim 39, wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

41. (Previously Presented) Control system as claimed in claim 39, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said first elastomeric material.
42. (Previously Presented) Control system as claimed in claim 39, wherein said fluorinated plastomer is polytetrafluoroethylene.
43. (Previously Presented) Control system as claimed in claim 25, wherein a back of said belt is covered by a second fabric.
44. (Previously Presented) Control system as claimed in claim 43, wherein said second fabric is externally coated by a second resistant layer.
45. (Previously Presented) Control system as claimed in claim 44, wherein said second resistant layer is the same as said first resistant layer.
46. (Previously Presented) Control system as claimed in claim 25, wherein said elastomeric material comprises fibers.
47. (Previously Presented) Control system as claimed in claim 46, wherein said fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

48. (Previously Presented) Control system as claimed in claim 25, wherein said toothed belt comprises, between the toothing and a back surface of said belt, sides treated with a polymer resistant to swelling.

49. (Previously Presented) Control system as claimed in claim 48, wherein the control system comprises a pad tensioner or a pad.

50. (Previously Presented) Control system as claimed in claim 39, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said elastomeric material.

51. (Currently Amended) A toothed belt adapted for use in substantially continuous contact with oil or partly immersed in oil, the belt comprising a body, a plurality of teeth extending from at least a first surface of said body, said teeth being coated by a first fabric, and a plurality of resistant inserts, wherein said resistant inserts are produced from at least a first and a second material wherein the first material comprises glass fibers and the second material comprises carbon fibers, and the first material at least partially covers the second material and in that said first material includes glass fiber and said second material includes carbon fiber.

52. (Withdrawn) ~~The toothed belt as claimed in claim 51, wherein said first material covers said second material at least partly.~~

53. (Previously Presented) The toothed belt as claimed in claim 52, wherein said first material entirely surrounds said second material.

54. (Previously Presented) The toothed belt as claimed in claim 53, wherein said first material has a lower modulus with respect to said second material.

55. (Previously Presented) The toothed belt as claimed in claim 51, wherein, in section, said second material occupies a sectional surface between about 15% and about 75% of a total sectional surface of the body.

56. (Previously Presented) The toothed belt as claimed in claim 55, wherein, in section, said second material occupies a sectional surface between about 35% and 45% of a total sectional surface of the body.

57. (Previously Presented) The toothed belt as claimed in claim 51, wherein said resistant inserts have two twists in the same direction.

58. (Previously Presented) The toothed belt as claimed in claim 51, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.

59. (Previously Presented) The toothed belt as claimed in claim 58, wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

60. (Previously Presented) The toothed belt as claimed in claim 59, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

61. (Previously Presented) The toothed belt as claimed in claim 60, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.

62. (Previously Presented) The toothed belt as claimed in claim 51, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in an amount greater than said first elastomeric material.

63. (Previously Presented) The toothed belt as claimed in claim 62, wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

64. (Previously Presented) The toothed belt as claimed in claim 62, wherein said resistant layer comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said elastomeric material.

65. (Previously Presented) The toothed belt as claimed claim 62, wherein said

fluorinated plastomer is polytetrafluoroethylene.

66. (Previously Presented) The toothed belt as claimed in claim 62, wherein a back of said belt is covered by a second fabric.

67. (Previously Presented) The toothed belt as claimed in claim 66, wherein said second fabric is externally coated by a second resistant layer.

68. (Previously Presented) The toothed belt as claimed in claim 67, wherein said second resistant layer is the same as said first resistant layer.

69. (Previously Presented) The toothed belt as claimed in claim 62, wherein said first elastomeric material comprises fibres.

70. (Previously Presented) The toothed belt as claimed in claim 51, wherein said toothed belt comprises, between the toothing and a back surface of said belt, sides treated with a polymer resistant to swelling.

71. (Previously Presented) The toothed belt as claimed in claim 51 wherein the toothed belt is configured to replace a chain in a timing control systems without any dimensional variations being made to the timing control system.

72. (Currently Amended) A method of providing a belt for use with oil, the method

comprising:

providing an oil-wet environment,

providing a toothed belt to operate in said oil-wet environment, said belt

comprising:

a body,

a plurality of teeth extending from at least a first surface of said body, said

teeth being coated by a first fabric, and

a plurality of resistant inserts;

wherein said resistant inserts comprise fibers produced from at least a first and a second material, wherein the first material comprises glass fibers and the second material comprises carbon fibers, and the first material at least partially covers the second material.

73. (Previously Presented) The method of claim 72 wherein the oil wet environment further comprises an oil spray.

74. (Previously Presented) The method of claim 72 wherein the oil wet environment further comprises an oil bath.

75. (Previously Presented) The method of claim 72 wherein the oil transport system delivers oil at approximately 5.8 gallons/hour.

76. (Previously Presented) The method of claim 72 wherein the oil wet environment provides oil at a temperature of approximately 284°C.

77. (Withdrawn) ~~The method of claim 72, wherein said first material covers said second material at least partly.~~

78. (Previously Presented) The method of claim 77, wherein said first material entirely surrounds said second material.

79. (Previously Presented) The method of claim 78, wherein said first material has a lower modulus with respect to said second material.

80. (Previously Presented) The method of claim 72, wherein, in cross-section, said second material occupies a sectional surface between about 15% and about 75% of the total sectional surface of the body.

81. (Previously Presented) The method of claim 80, wherein, in cross-section, said second material occupies a sectional surface between about 35% and about 45% of the total sectional surface of the body.

82. (Previously Presented) The method of claim 72, characterized in that said resistant inserts include two twists in the same direction.

83. (Withdrawn) ~~The method of claim 72, wherein said first and said second material are chosen from the group consisting of glass fibers, aramid fibers, polyester fibers, PBO fibers and~~

~~carbon fibers.~~

84. (Withdrawn) ~~The method of claim 83, wherein said first material is glass fiber.~~

85. (Withdrawn) ~~The method of claim 83, wherein said second material is carbon fiber.~~

86. (Previously Presented) The method of claim 72, wherein said resistant inserts have been treated with an RFL comprising a latex suitable to resist oils.

87. (Previously Presented) The method of claim 86, wherein said latex comprises an elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

88. (Previously Presented) The method of claim 87, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage between 33 and 49 weight % with respect to the final copolymer.

89. (Previously Presented) The method of claim 88, wherein said copolymer is formed from a diene and from a monomer containing nitrile groups in a percentage of 39 weight %.

90. (Previously Presented) The method of claim 72, wherein said fabric is externally coated by a resistant layer, which comprises a fluorinated plastomer, a first elastomeric material and a vulcanizing agent; and in that said fluorinated plastomer is present in said resistant layer in

an amount greater than said first elastomeric material.

91. (Previously Presented) The method of claim 90, wherein said body comprises a mixture based on a second elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

92. (Previously Presented) The method of claim 90, wherein said resistant layer comprises said fluorinated elastomer in an amount in weight between 101 and 150 parts in weight with respect to said first elastomeric material.

93. (Previously Presented) The method of claim 90, wherein said fluorinated elastomer is polytetrafluoroethylene.

94. (Previously Presented) The method of claim 90, wherein the back of said belt is covered by a second fabric.

95. (Previously Presented) The method of claim 94, wherein said second fabric is externally coated by a second resistant layer.

96. (Previously Presented) The method of claim 95, wherein said second resistant layer is the same as said first resistant layer.

97. (Previously Presented) The method of claim 90, wherein said elastomeric material

comprises fibers.

98. (Previously Presented) The method of claim 97, wherein said fibers are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.

99. (Previously Presented) The method of claim 97, wherein said fibres are present in an amount in weight between 0.5 and 15% with respect to said elastomeric material.